US Army Corps of Engineers

Hurricane Sandy Projected Damage Areas

Landfall Plus About 12 Hours

For Planning Purposes Only!

Post Landfall Projected Damage Areas

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a projected or actual Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast and extrapolated by LRL staff to represent a landfall condition that has either occured or may occur in the near future.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Projected Damage Areas

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

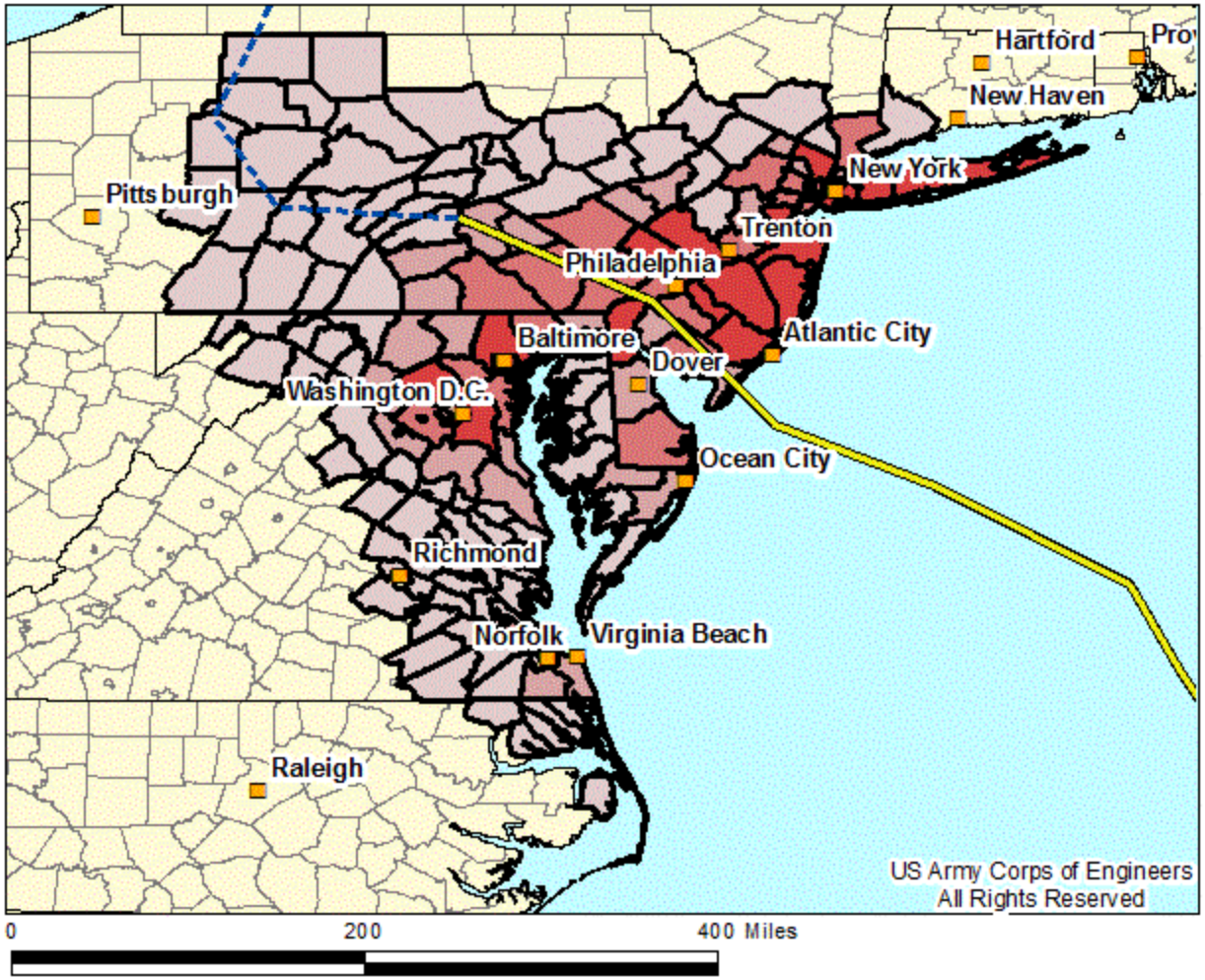
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

New Jersey - 8,191,000 Yards
Pennsylvania - 6,093,000 Yards
Maryland - 5,115,000 Yards
New York - 3,483,000 Yards
Virginia - 2,443,000 Yards
Delaware - 1,520,000 Yards
District of Columbia - 233,000 Yards
Connecticut - 97,000 Yards
West Virginia - 95,000 Yards
North Carolina - 49,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Debris Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Connecticut		Fairfield County	97,000
Connecticut	97,000		
Delaware		Kent County	250,000
		New Castle County	879,000
		Sussex County	391,000
Delaware	1,520,000		
District of Columbia		District of Columbia	233,000
District of Columbia	233,000		
Maryland		Allegany County	< 1,000
		Anne Arundel County	486,000
		Baltimore County	758,000
		Baltimore city	736,000
		Calvert County	117,000
		Caroline County	38,000
		Carroll County	167,000
		Cecil County	166,000
		Charles County	102,000
		Dorchester County	49,000
		Frederick County	126,000
		Harford County	287,000
		Howard County	343,000
		Kent County	26,000
		Montgomery County	566,000
		Prince George's County	523,000
		Queen Anne's County	55,000
		Somerset County	29,000
		St. Mary's County	168,000
		Talbot County	53,000

State	Yards per State	County	Yards per County
Maryland		Washington County	83,000
(continued)		Wicomico County	122,000
		Worcester County	115,000
Maryland	5,115,000		
New Jersey		Atlantic County	609,000
		Bergen County	506,000
		Burlington County	641,000
		Camden County	877,000
		Cape May County	242,000
		Cumberland County	339,000
		Essex County	369,000
		Gloucester County	490,000
		Hudson County	261,000
		Hunterdon County	79,000
		Mercer County	388,000
		Middlesex County	542,000
		Monmouth County	750,000
		Morris County	274,000
		Ocean County	833,000
		Passaic County	240,000
		Salem County	124,000
		Somerset County	219,000
		Sussex County	63,000
		Union County	283,000
		Warren County	62,000
New Jersey	8,191,000		
New York		Bronx County	161,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Sandy Debris Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
New York		Kings County	546,000
(continued)		Nassau County	813,000
		New York County	194,000
		Orange County	< 1,000
		Queens County	517,000
		Richmond County	273,000
		Rockland County	82,000
		Suffolk County	645,000
		Westchester County	252,000
New York	3,483,000		
North Carolina		Camden County	8,000
		Currituck County	15,000
		Dare County	2,000
		Gates County	3,000
		Pasquotank County	21,000
		Perquimans County	< 1,000
North Carolina	49,000		
Pennsylvania		Adams County	102,000
		Bedford County	33,000
		Berks County	381,000
		Blair County	66,000
		Bucks County	524,000
		Cambria County	36,000
		Cameron County	4,000
		Carbon County	35,000
		Centre County	88,000
		Chester County	489,000
		Clearfield County	63,000
		Clinton County	28,000

State	Yards per State	County	Yards per County
Pennsylvania		Columbia County	35,000
(continued)		Cumberland County	216,000
		Dauphin County	248,000
		Delaware County	499,000
		Elk County	12,000
		Franklin County	83,000
		Fulton County	10,000
		Huntingdon County	31,000
		Indiana County	3,000
		Jefferson County	9,000
		Juniata County	18,000
		Lancaster County	417,000
		Lebanon County	128,000
		Lehigh County	158,000
		Luzerne County	44,000
		Lycoming County	50,000
		McKean County	< 1,000
		Mifflin County	25,000
		Monroe County	73,000
		Montgomery County	505,000
		Montour County	10,000
		Northampton County	137,000
		Northumberland County	51,000
		Perry County	50,000
		Philadelphia County	840,000
		Pike County	5,000
		Potter County	3,000
		Schuylkil County	83,000
		Snyder County	19,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Sandy Debris Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Pennsylvania		Somerset County	2,000
(continued)		Union County	19,000
		York County	461,000
Pennsylvania	6,093,000		
Virginia		Accomack County	46,000
		Alexandria city	76,000
		Arlington County	109,000
		Caroline County	17,000
		Charles City County	6,000
		Chesapeake city	124,000
		Chesterfield County	< 1,000
		Clarke County	8,000
		Culpeper County	< 1,000
		Essex County	9,000
		Fairfax County	390,000
		Fairfax city	16,000
		Falls Church city	11,000
		Fauquier County	26,000
		Frederick County	20,000
		Fredericksburg city	18,000
		Gloucester County	31,000
		Hampton city	92,000
		Hanover County	19,000
		Henrico County	13,000
		Isle of Wight County	24,000
		James City County	56,000
		King George County	15,000
		King William County	11,000
		King and Queen County	6,000
		Lancaster County	19,000

State	Yards per State	County	Yards per County
Virginia		Loudoun County	158,000
(continued)		Manassas Park city	9,000
		Manassas city	25,000
		Mathews County	14,000
		Middlesex County	15,000
		New Kent County	12,000
		Newport News city	142,000
		Norfolk city	167,000
		Northampton County	15,000
		Northumberland County	20,000
		Poquoson city	9,000
		Portsmouth city	73,000
		Prince George County	4,000
		Prince William County	147,000
		Richmond County	7,000
		Southampton County	2,000
		Spotsylvania County	38,000
		Stafford County	69,000
		Suffolk city	50,000
		Surry County	7,000
		Sussex County	4,000
		Virginia Beach city	227,000
		Westmoreland County	16,000
		Williamsburg city	9,000
		Winchester city	5,000
		York County	39,000
Virginia	2,445,000		
West Virginia		Berkeley County	57,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Sandy Debris Model

Generated By:
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Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
West Virginia		Hampshire County	< 1,000
(continued)		Jefferson County	28,000
		Morgan County	10,000
West Virginia	95,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane Sandy Debris Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

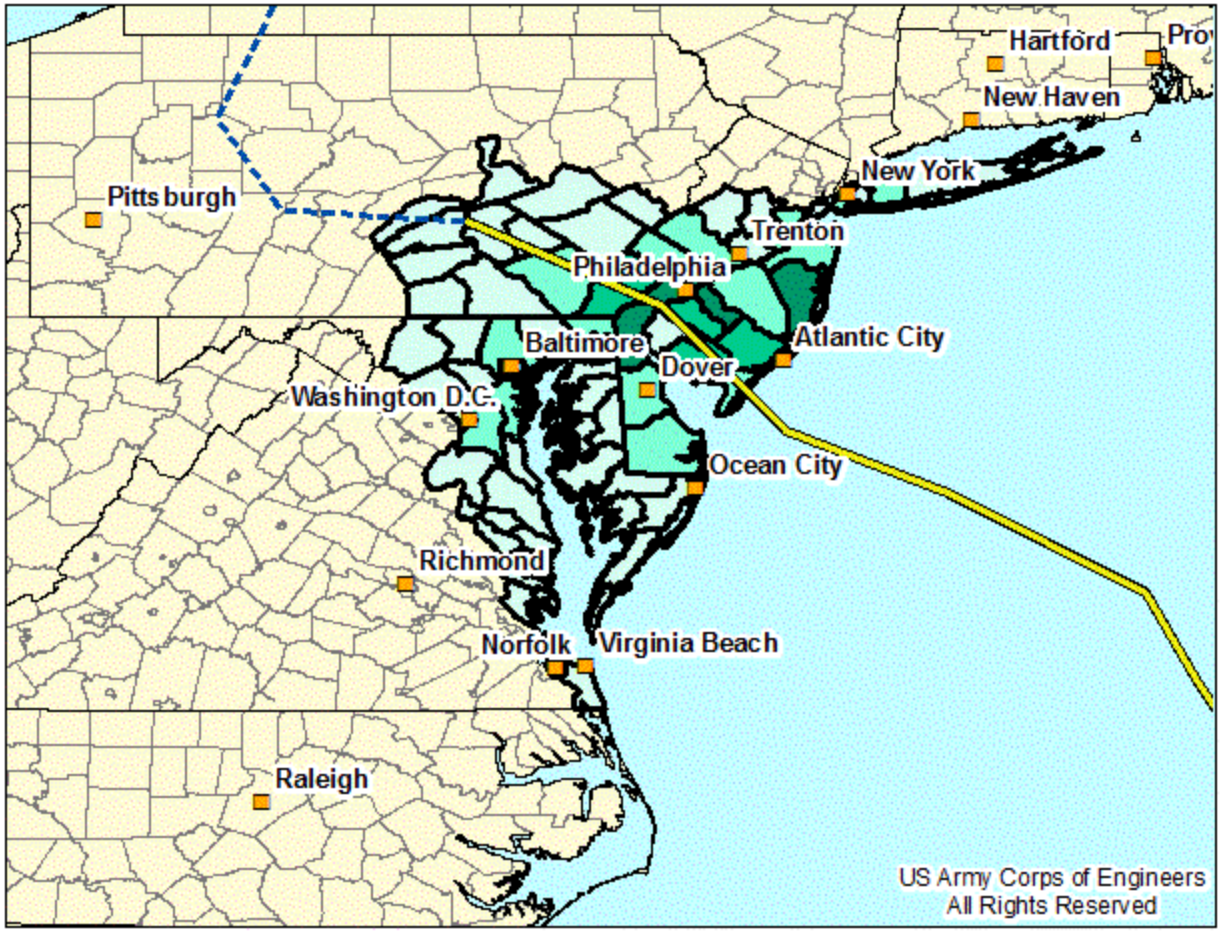
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three

NJ – 32/65/130 Truckloads
PA – 29/59/118 Truckloads
MD – 13/26/52 Truckloads
DE – 9/19/39 Truckloads
NY – 5/11/23 Truckloads
VA – 3/6/13 Truckloads
DC – 1/1/1 Truckloads

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Forecast Track
Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC ***(0500 EDT 10/30/2012)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents daily needs with a ramp-up in the distribution system – three days for Points of Distribution (PODs) to be fully in place and operational. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Commodities Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Delaware		Kent County	7
		New Castle County	23
		Sussex County	9
Delaware	39		
District of Columbia		District of Columbia	1
District of Columbia	1		
Maryland		Anne Arundel County	5
		Baltimore County	7
		Baltimore city	6
		Calvert County	1
		Caroline County	1
		Carroll County	2
		Cecil County	5
		Charles County	1
		Dorchester County	1
		Frederick County	1
		Harford County	3
		Howard County	3
		Kent County	1
		Montgomery County	1
		Prince George's County	5
		Queen Anne's County	1
		Somerset County	1
		St. Mary's County	2
		Talbot County	1
		Wicomico County	2
		Worcester County	2
Maryland	52		

State	Truckloads per State	County	Truckloads per County
New Jersey		Atlantic County	20
		Burlington County	10
		Camden County	22
		Cape May County	8
		Cumberland County	12
		Gloucester County	13
		Hunterdon County	1
		Mercer County	4
		Middlesex County	5
		Monmouth County	7
		Ocean County	23
		Salem County	4
		Somerset County	1
New Jersey	130		
New York		Kings County	8
		Nassau County	7
		Queens County	3
		Richmond County	3
		Suffolk County	2
New York	23		
Pennsylvania		Adams County	1
		Berks County	3
		Bucks County	5
		Chester County	18
		Cumberland County	2
		Dauphin County	3
		Delaware County	23

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Commodities Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Pennsylvania		Juniata County	1
(continued)		Lancaster County	9
		Lebanon County	2
		Lehigh County	1
		Montgomery County	8
		Northumberland County	1
		Perry County	1
		Philadelphia County	35
		Schuylkill County	1
		York County	4
Pennsylvania	118		
Virginia		Accomack County	1
		Gloucester County	1
		Hampton city	1
		Lancaster County	1
		Mathews County	1
		Middlesex County	1
		Norfolk city	1
		Northampton County	1
		Northumberland County	1
		Poquoson city	1
		Richmond County	1
		Virginia Beach city	1
		Westmoreland County	1
Virginia	13		

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

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Hurricane Sandy Commodities Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

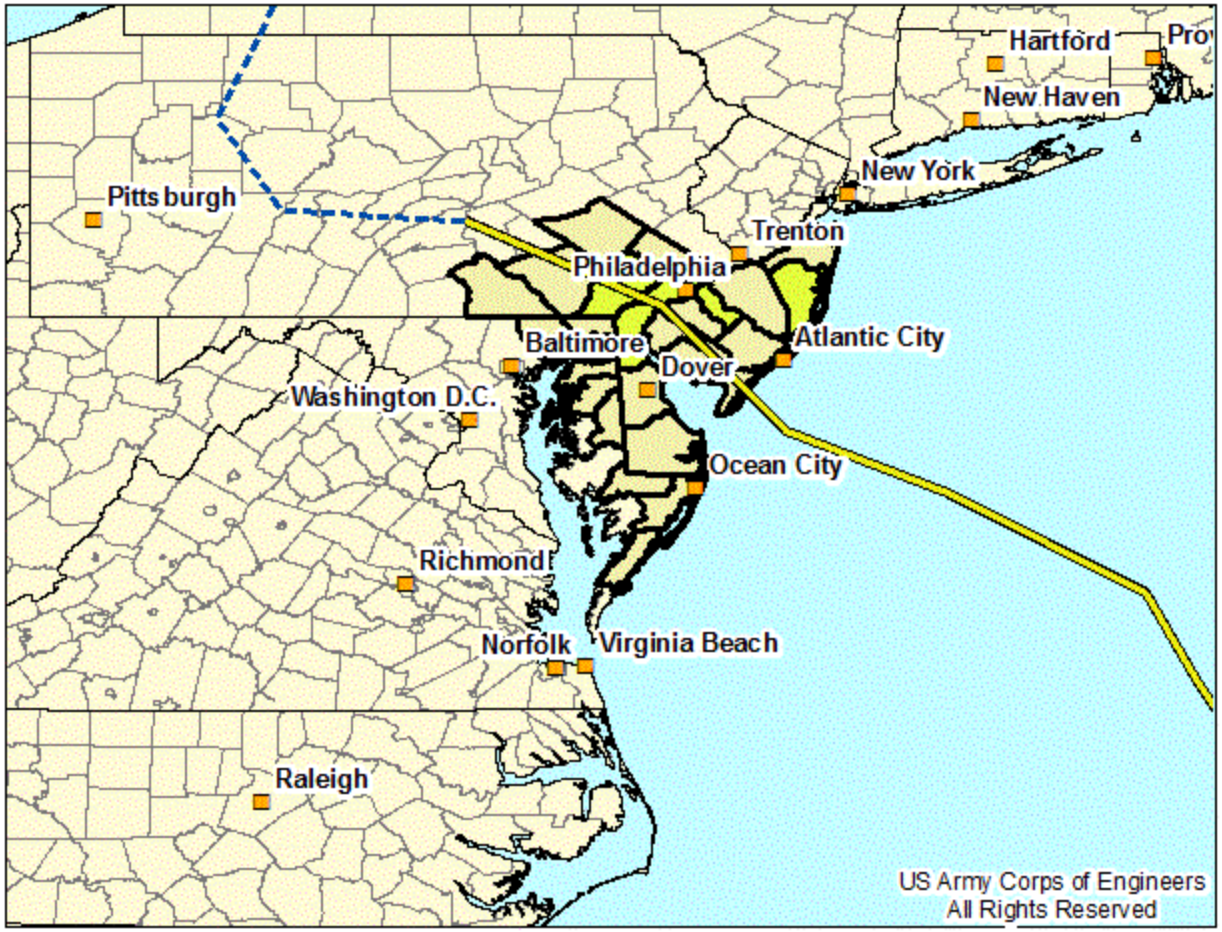
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Sandy Temporary Roofing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

New Jersey - 13,400
Pennsylvania - 10,700
Delaware - 5,200
Maryland - 1,500

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast. Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Roofing Model	
Generated By: P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 23

US Army Corps of Engineers

Hurricane Sandy Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Delaware		Kent County	1,000
		New Castle County	3,200
		Sussex County	1,000
Delaware	5,200		
Maryland		Caroline County	< 100
		Cecil County	700
		Harford County	200
		Kent County	< 100
		Queen Anne's County	< 100
		Wicomico County	200
		Worcester County	400
Maryland	1,500		
New Jersey		Atlantic County	1,500
		Burlington County	1,100
		Camden County	3,000
		Cape May County	700
		Cumberland County	900
		Gloucester County	1,700
		Monmouth County	400
		Ocean County	3,600
		Salem County	500
New Jersey	13,400		
Pennsylvania		Berks County	< 100
		Chester County	2,300
		Delaware County	3,300
		Lancaster County	800
		Montgomery County	300
		Philadelphia County	4,000

State	House Units per State	County	House Units per County
Pennsylvania		York County	< 100
Pennsylvania	10,700		
Virginia		Accomack County	< 100
Virginia			

Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Sandy Roofing Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

Post Landfall Temporary Housing Model Results

No Housing expected due to wind

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Forecast Track
Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast. Temporary housing is based on nothing. The number indicated represents a possible need but not necessarily the scope of mission for USACE.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Housing Model	
Generated By: P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012	
Sources: HURREVAC LRL-DEBRIS	Page 12 of 23

US Army Corps of Engineers

Hurricane Sandy Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

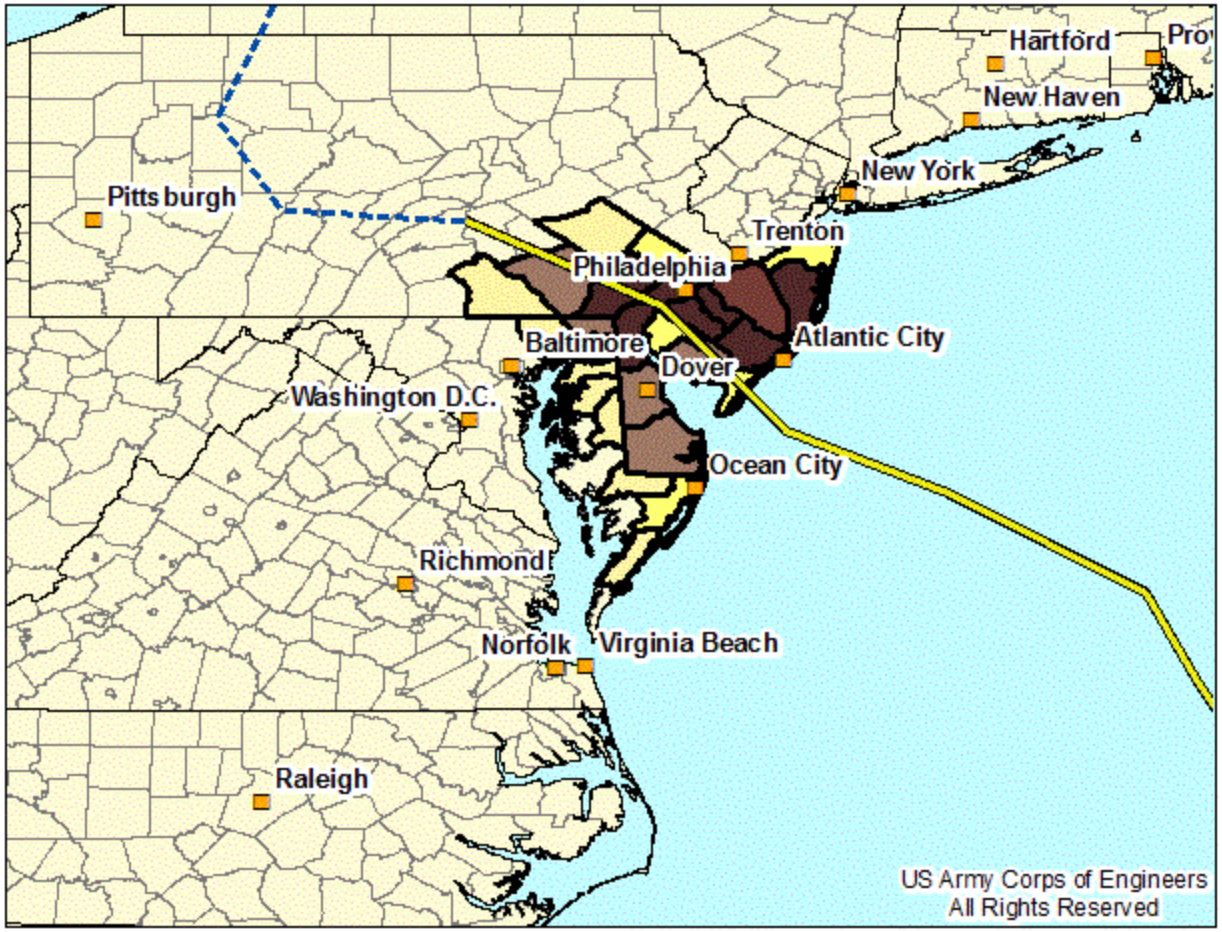
State	House Units per State	County	House Units per County

US Army Corps of Engineers

Hurricane Sandy Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

New Jersey - 2,116,000
Pennsylvania - 1,756,000
Delaware - 877,000
Maryland - 204,000
Virginia - 2,000

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Population Model	
Generated By: P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012	
Sources: HURREVAC LRL-DEBRIS	Page 14 of 23

US Army Corps of Engineers

Hurricane Sandy Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Delaware		Kent County	165,000
		New Castle County	543,000
		Sussex County	169,000
Delaware	877,000		
Maryland		Caroline County	4,000
		Cecil County	102,000
		Harford County	21,000
		Kent County	6,000
		Queen Anne's County	5,000
		Wicomico County	21,000
		Worcester County	45,000
Maryland	204,000		
New Jersey		Atlantic County	276,000
		Burlington County	176,000
		Camden County	509,000
		Cape May County	97,000
		Cumberland County	158,000
		Gloucester County	290,000
		Monmouth County	50,000
		Ocean County	494,000
		Salem County	66,000
New Jersey	2,116,000		
Pennsylvania		Berks County	< 1,000
		Chester County	397,000
		Delaware County	543,000
		Lancaster County	138,000
		Montgomery County	35,000
		Philadelphia County	640,000

State	Population per State	County	Population per County
Pennsylvania		York County	3,000
Pennsylvania	1,756,000		
Virginia		Accomack County	2,000
Virginia	2,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Sandy Population Model

Generated By:
P.Keown/T.Siemsen, LRL 0730 EDT 10/30/2012

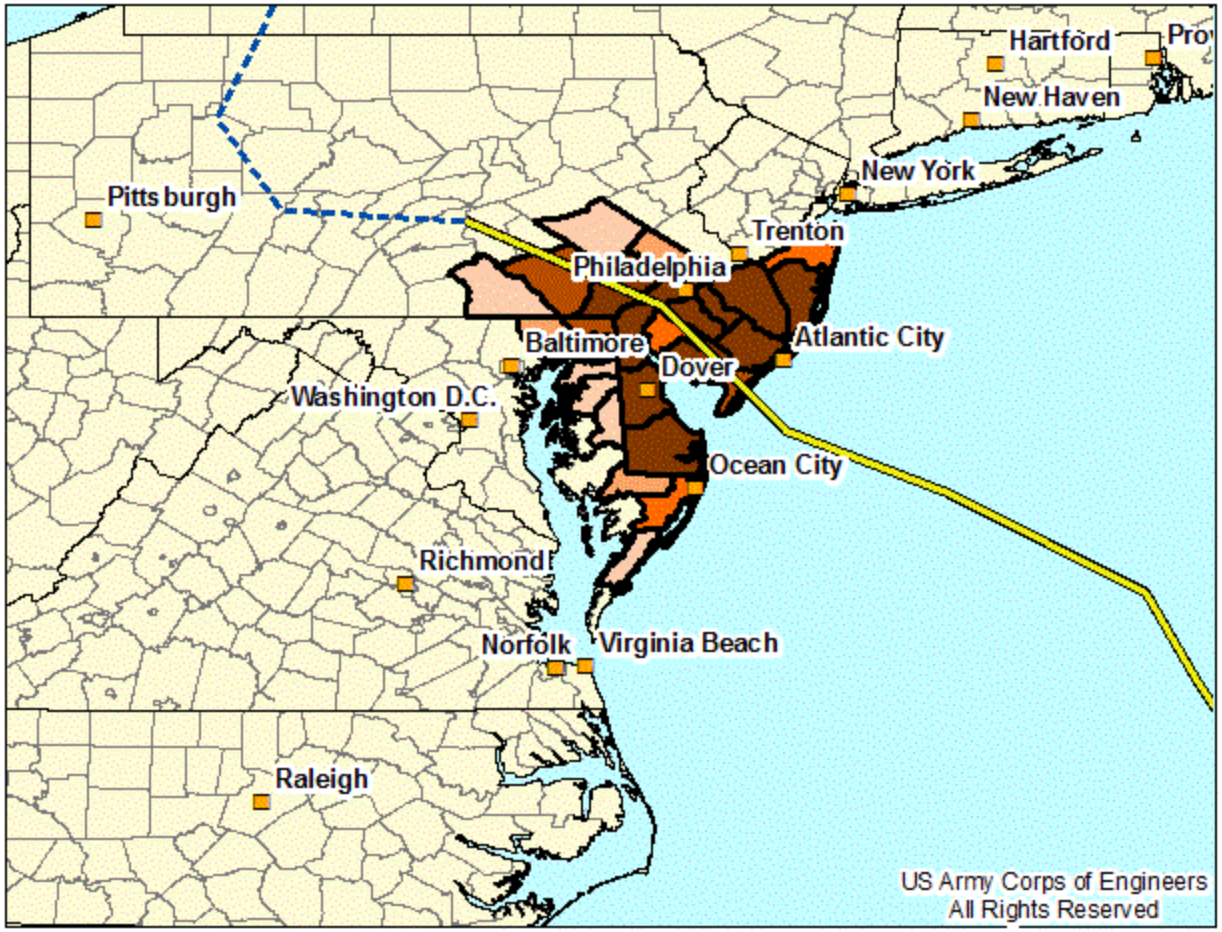
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

New Jersey - 801,000
Pennsylvania - 668,000
Delaware - 336,000
Maryland - 80,000

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 16 of 23

US Army Corps of Engineers

Hurricane Sandy Households Model

Landfall Plus About 12 Hours

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State	Households per State	County	Households per County
Delaware		Kent County	62,000
		New Castle County	206,000
		Sussex County	68,000
Delaware	336,000		
Maryland		Caroline County	2,000
		Cecil County	37,000
		Harford County	8,000
		Kent County	3,000
		Queen Anne's County	2,000
		Wicomico County	8,000
		Worcester County	20,000
Maryland	80,000		
New Jersey		Atlantic County	104,000
		Burlington County	67,000
		Camden County	186,000
		Cape May County	40,000
		Cumberland County	53,000
		Gloucester County	104,000
		Monmouth County	21,000
		Ocean County	201,000
		Salem County	25,000
New Jersey	801,000		
Pennsylvania		Berks County	< 1,000
		Chester County	142,000
		Delaware County	205,000
		Lancaster County	48,000
		Montgomery County	14,000
		Philadelphia County	259,000
Pennsylvania		York County	< 1,000
Pennsylvania	668,000		
Virginia		Accomack County	< 1,000
Virginia			

The number of households estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

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Hurricane Sandy Households Model

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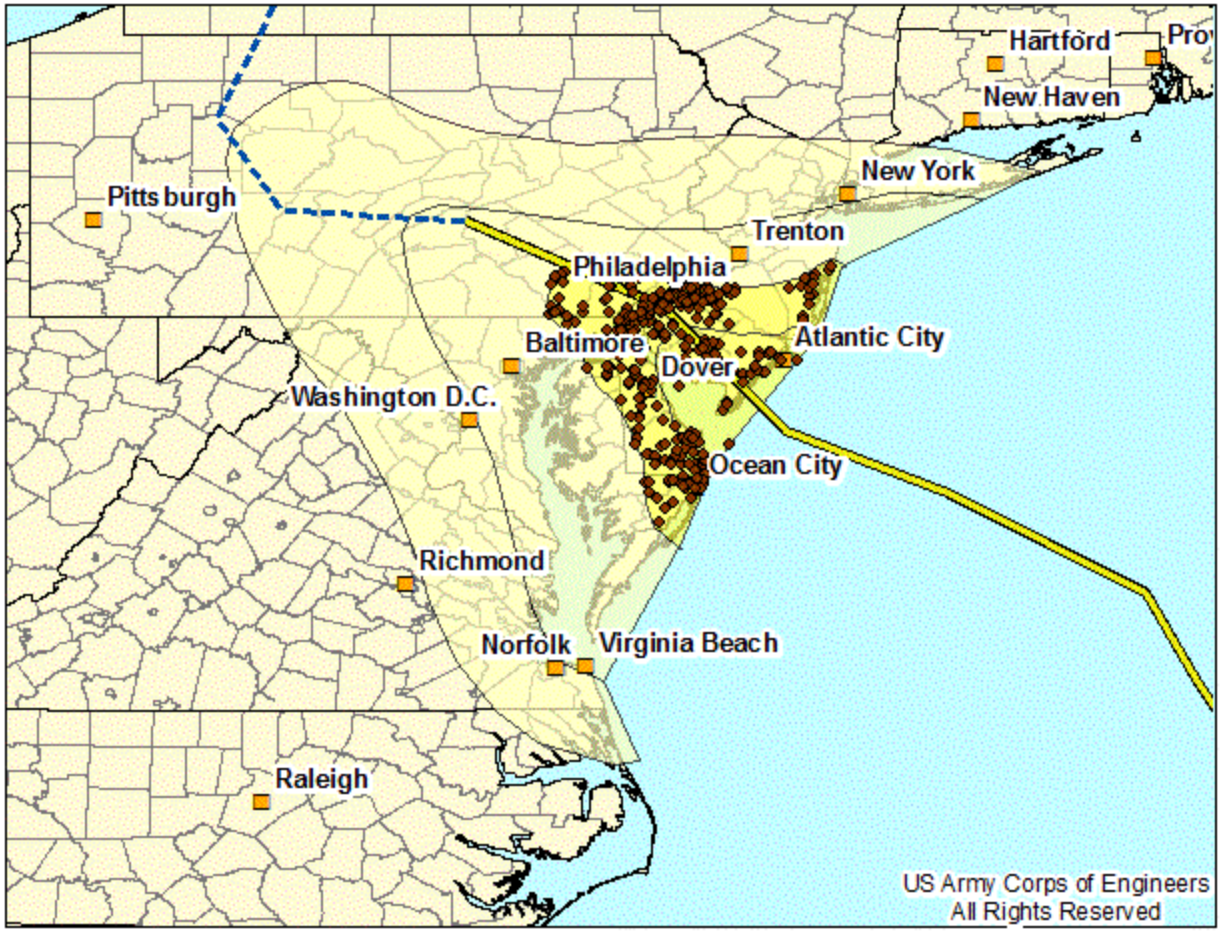
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Sandy Electric Substations

Landfall Plus About 12 Hours

For Planning Purposes Only!



Most Probable Landfall Electric Substations Inside Hurricane Force Winds

New Jersey - 122
Delaware - 116
Pennsylvania - 69
Maryland - 45

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

- Electric Substations
- Forecast Track
- Historic Track

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast.

The number of electric substations included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Sandy Electric Substations	
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US Army Corps of Engineers

Hurricane Sandy Fire Stations

Landfall Plus About 12 Hours

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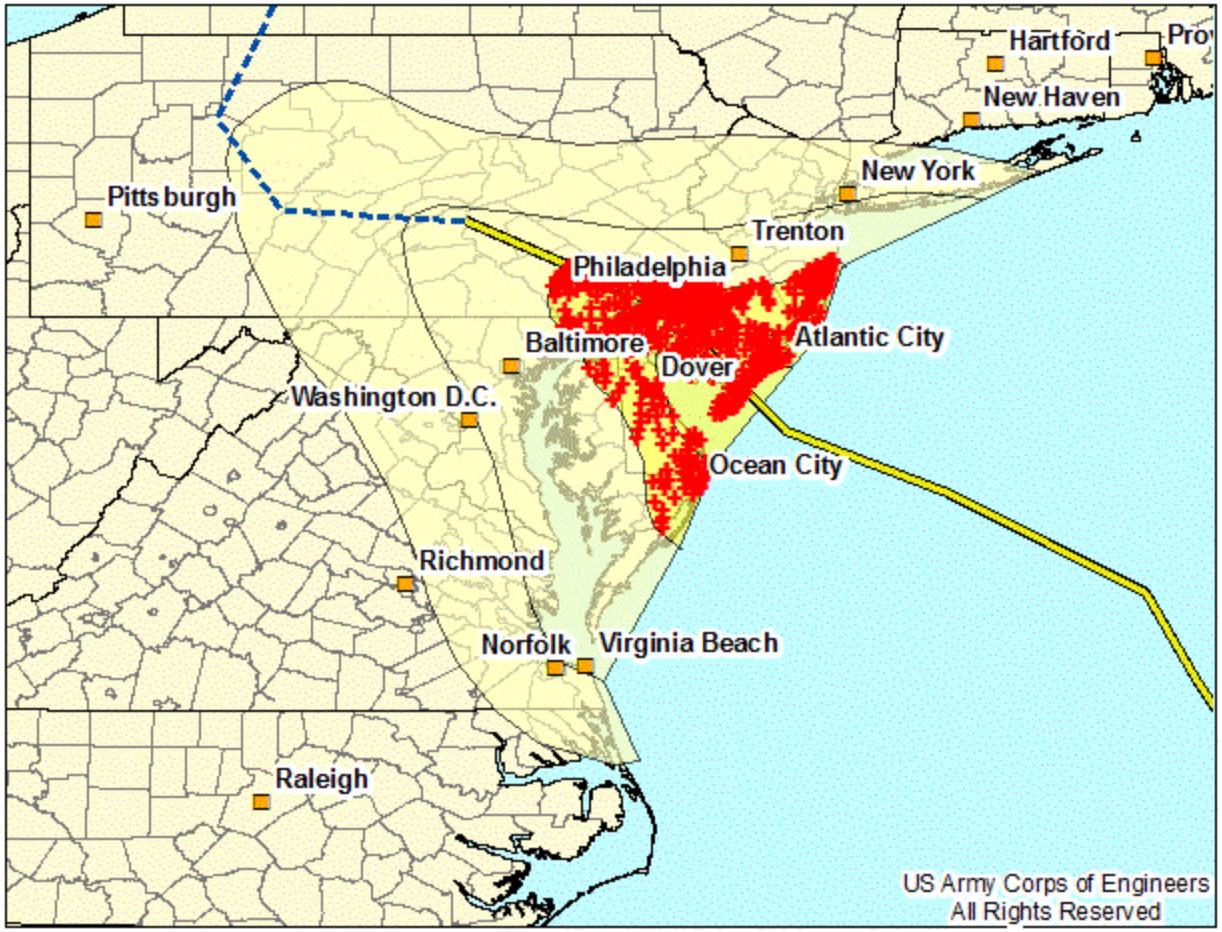

Most Probable Landfall Fire Stations Inside Hurricane Force Winds

New Jersey - 388
Pennsylvania - 175
Delaware - 86
Maryland - 51
Virginia - 1

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

+ Fire Stations
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast.

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Hurricane Sandy Fire Stations	
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US Army Corps of Engineers

Hurricane Sandy Hospitals

Landfall Plus About 12 Hours

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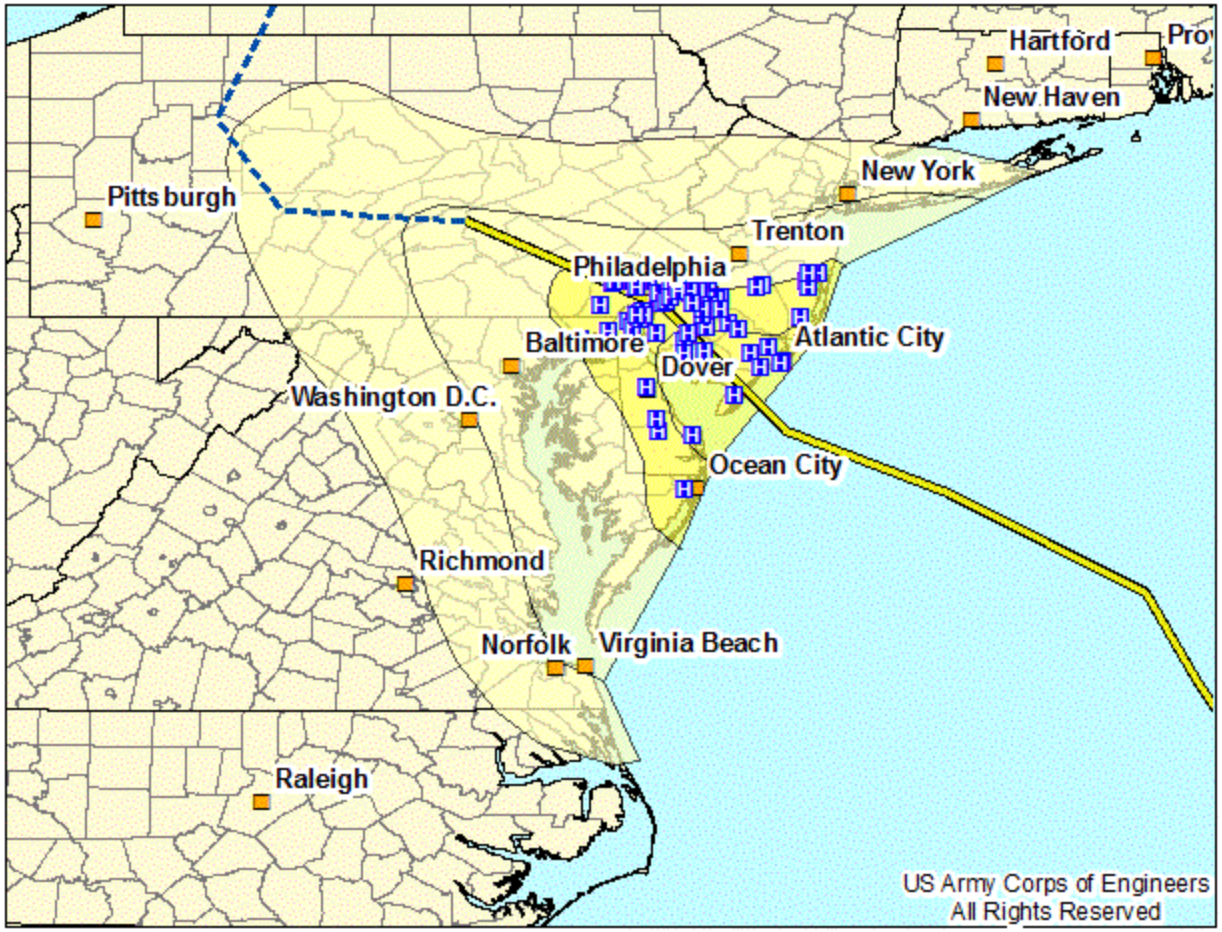

0 200 400 Miles

Most Probable Landfall Hospitals Inside Hurricane Force Winds

New Jersey - 44
Pennsylvania - 38
Delaware - 14
Maryland - 4

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

H Hospitals
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

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Hurricane Sandy Hospitals	
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Sources: HURREVAC LRL-DEBRIS	Page 20 of 23

US Army Corps of Engineers

Hurricane Sandy Law Enforcement

Landfall Plus About 12 Hours

For Planning Purposes Only!

Most Probable Landfall Law Enforcement Inside Hurricane Force Winds

New Jersey - 188
Pennsylvania - 113
Delaware - 60
Maryland - 27

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

★ Law Enforcement
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast.

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Hurricane Sandy Law Enforcement	
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US Army Corps of Engineers

Hurricane Sandy Nursing Homes

Landfall Plus About 12 Hours

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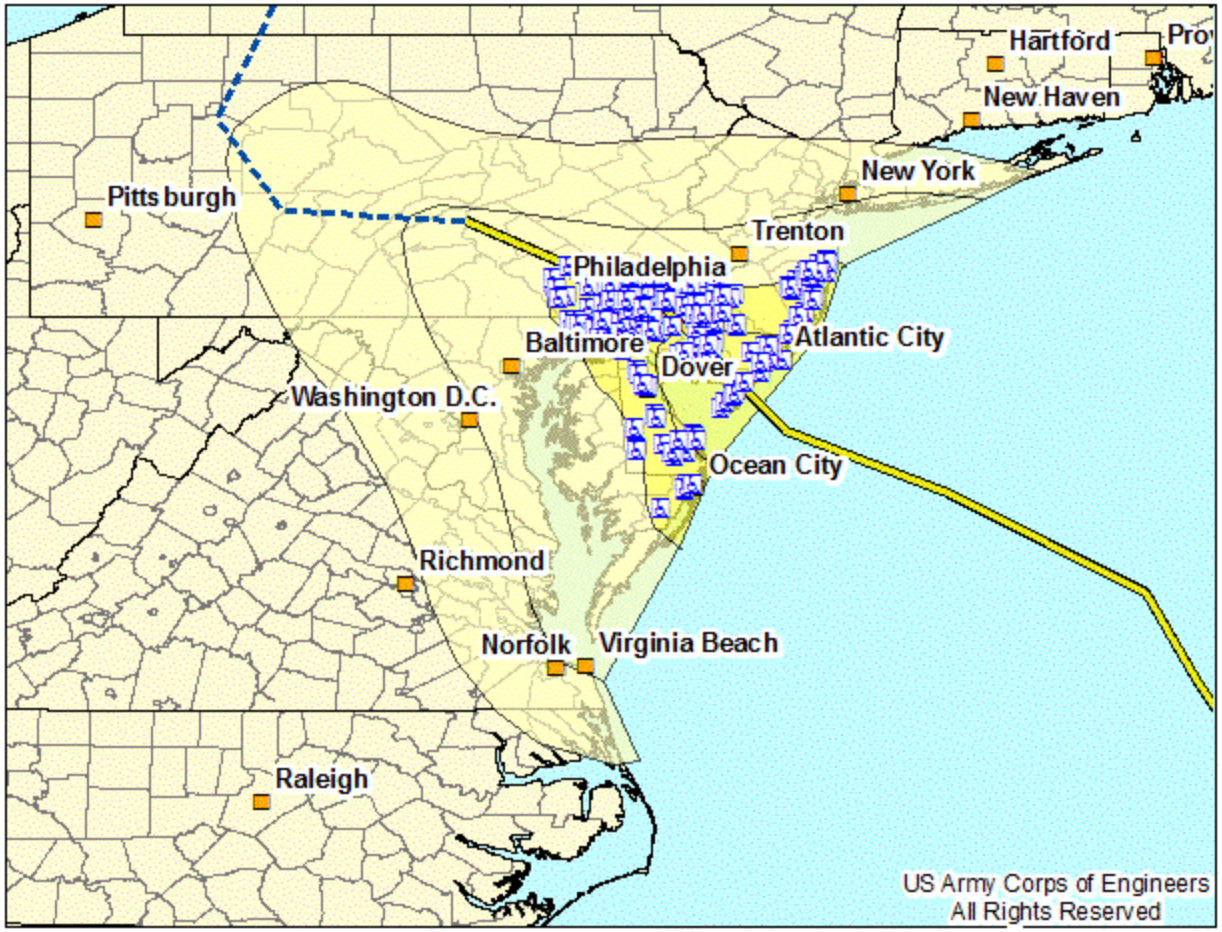

Most Probable Landfall Nursing Homes Inside Hurricane Force Winds

Pennsylvania - 179
New Jersey - 156
Delaware - 80
Maryland - 24

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Nursing Homes
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast.

The number of nursing homes included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

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US Army Corps of Engineers

Hurricane Sandy Schools

Landfall Plus About 12 Hours

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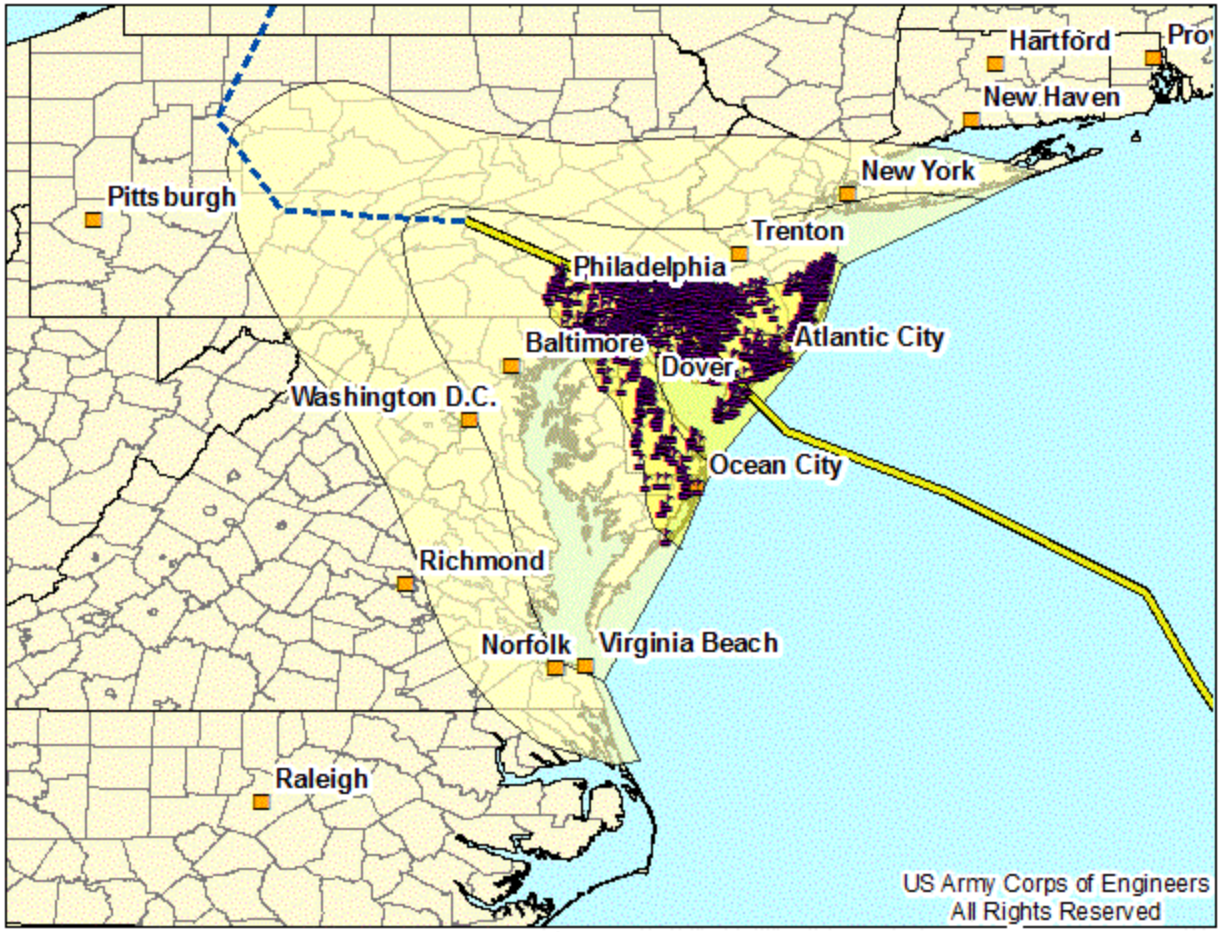

Most Probable Landfall Schools Inside Hurricane Force Winds

New Jersey - 650
Pennsylvania - 404
Delaware - 233
Maryland - 52
Virginia - 2

Model results per County on following page

This model is based on a Category 1 storm making landfall in Cape May, NJ.

Schools
Forecast Track
Historic Track

Information provided on this page displays a Category 1 storm making landfall in Cape May, NJ. These projections are based on information from the NHC (0500 EDT 10/30/2012) forecast.

The number of schools included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

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Sources: HURREVAC LRL-DEBRIS	Page 23 of 23